# Downers Grove Sanitary District

2710 Curtiss Street
P.O. Box 1412
Downers Grove, IL 60515-0703
Phone: 630-969-0664
Fax: 630-969-0827



*Providing a Better Environment for South Central DuPage County*



April 10, 2000
Larry MacDaniel
Plant Superintendent
Tricon Industries, Inc.
2325 Wisconsin
Downers Grove, Illinois 60515

Dear Mr. MacDaniel:

The industrial wastewater discharge permit issued to Tricon Industries, Inc. will expire on April 15, 2000. To provide for a timely renewal of the permit, an application form is enclosed, which should be completed and returned to the district no later than July 15, 2000.

Section IV (C) requires the submission of monitoring data from your facility's wastewater discharge. The correct sampling location for this is at the sampling point designated 001-C, the inspection manhole in front of the building. A 24-hour composite sample shall be collected (except for cyanide), and the following parameters analyzed on the sample:

| | |
|---|---|
| Arsenic (total) | Mercury (total) |
| Cadmium (total) | Nickel (total) |
| Chromium (total) | Silver (total) |
| Copper (total) | Selenium (total) |
| Lead (total) | Zinc (total) |

Cyanide (total) one grab sample to be taken during the compositing period

The completed application is due by July 15, 2000. Please feel free to call me if you have any questions.

Sincerely,
DOWNERS GROVE SANITARY DISTRICT

Janet M. Buchner
Laboratory Services Director
enclosure

**DOWNERS GROVE SANITARY DISTRICT**
**INDUSTRIAL PERMIT APPLICATION**
**(BASELINE MONITORING REPORT)**

SECTION I: IDENTIFYING INFORMATION

A. Facility Name: TRICON INDUSTRIES

B. Business Address: 1600 EISENHOWER LANE
Street address
LISLE ILL. 60532
City State Zip code

C. Location of Permitted Facility: 2325 WISCONSIN AVE.
Street Address
DOWNERS GROVE, ILL. 60515
City State Zip code

D. Name of person completing this application:

LARRY McDANIEL PLANT MANAGER 630-964-2330
Name Title Phone Number

E. Organization of business: sole proprietorship, partnership, corporation

1. If sole proprietorship, give the name of owner and assumed name if different from answer to Section I(A) above.

_____

2. If partnership, give names of general partners and assumed name if different from answer to Section I(A) above.

_____

3. If corporation, give state in which incorporated, and the name and address of registered agent.

State: DELAWARE Agent's Name: CSC The UNITED STATES CORP.

Agent's Address: 1013 CENTRE Rd. WILMINGTON DE. 19805
Street Address State Zip Code

F. Number of Employee's: 300
(Average annual number of employees at permitted facility, all shifts)

G. Average annual Days per Week of Operation: 6
(Approximate annual average, include process and clean-up schedules)

H. Time and Duration of Discharge to Sanitary Sewer System:

Discharge occurs from 7:00 [A.M.]/P.M. to 2:30 [A.M.]/P.M.
Circle one Circle one

Circle the Days of week discharge occurs: Su (Mo) (Tu) (We) (Th) (Fr) (Sa)
Circle all that apply

I. List the Standard Industrial Codes (SIC) which apply to your facility: (If more than one applies, list in descending order of importance)

Code 1 3089 ; 2 3678 ; 3 3679 ; 4 3613 ; 5 _____ ;

SECTION II: PRODUCTION DATA [403.12 (b)(3)]

A. Schematic Process Diagram [403.12(b)(3)]

Provide a schematic diagram for any processes resulting in the discharge of wastewater to the sanitary sewer system. Please attach it as exhibit "A".

B. Average Production Rates: (Complete this section only if required to do so in the cover letter)

Describe any process operations that result in the discharge of wastewater to the sanitary sewer system, whether manufacturing or cleaning, and the amount of manufactured goods produced, using units appropriate to the product.

Average Rate of Production

| Description of Operation | Time Basis (Choose One) | Amount (Exact figure or verifiable estimate) |
|---|---|---|
| PLATING & CLEANING OPERATION WITH WASTE TREATMENT | Daily | |
| | Monthly | |
| | Yearly | 1,202,230 (1999 USAGE) |
| | Daily | |
| | Monthly | |
| | Yearly | |
| | Daily | |
| | Monthly | |
| | Yearly | |

(Attach additional sheets if necessary)

SECTION III: WASTEWATER FLOW RATES

A. Total Wastewater Flow Rates

The following wastewater flow rates to the sanitary sewer are to be provided by the industrial user and must be physically measured unless other verifiable methods are approved by the District for this information.

Maximum Daily Flow (Gal/Day): Report the highest daily flow expected throughout the year as a total for this facility)

15,000 Gal/Day

Annual Daily Average Flow (Gal/Day): Report the average total facility flow expected during an average 24 hour work day.

14,000 Gal/Day

Describe any seasonal, monthly or weekly flow variations:

N/A

B. Industrial Process Discharges

Briefly describe any processes which result in the discharge of wastewater to the sanitary sewer system, the type of discharge, either batch or continuous during operation, the volumes per batch and or volume per day of wastewater discharged:

Process 1 PLATING & CLEANING W/WASTE WATER TREATMENT
Description

Discharge is: Continuous ☒ Volume per day 1/200 (Gal)

Batch ☐ Volume per batch _____ (Gal) Batches per day _____

Process 2 _____
Description

Discharge is: Continuous ☐ Volume per day _____ (Gal)

Batch ☐ Volume per batch _____ (Gal) Batches per day _____

Please attach additional sheet if more than two processes discharge wastewater to the sanitary sewer system.

C. Water Use and Disposal Summary

Using the information from plant records including water and sanitary sewer bills and wastewater flow metering, indicate the water amounts used in the individual processes described in the table. Report where the water is derived from and where it is discharged.

| Water Used For | Water Supply | | Wastewater Discharged to | | |
|---|---|---|---|---|---|
| | | Water | DGSD | Other | Discharged |
| | Gal/Day | Source(1) | Gal/Day | Gal/Day | To(2) |
| Sanitary | 9800 | A | 9800 | | A |
| Processes | 4200 | A | 4200 | | A |
| Cooling | | | | | |
| Lawn Sprinkling | | | | | |
| Air Scrubber Unit | | | | | |
| Boiler | | | | | |
| Other (Please Describe) | | | | | |
| Total (Gal/Day) | | | | | |

Notes:

(1) Enter the appropriate code letter indicating the water source used by your facility:
(a) DG city water; (b) Westmont city water; (c) Maple Belmont Water
(d) Private well; (e) Other, please describe_____

(2) Enter the appropriate code indicating the discharge point of wastewater:
(a) DGSD sanitary sewer; (b) Storm or surface water; (c) Product;
(d) Evaporation; (e) Hauled offsite for treatment or disposal; (f) Other, please describe_____

D. Environmental Permits Issued to Facility: [403.12(b)(2)]

Identify all environmental permits issued to the facility:

| Permitting Agency | Permit Type | Permit Number |
|---|---|---|
| I.E.P.A. | AIR (LIFETIME) | 84070020 |
| D.G. SAN. | WATER | 2 |
| U.S.E.P.A. | SMALL QTY. HAZ. WASTE GEN. | IL D0050 84124 |
| I.E.P.A. | SMALL QTY. HAZ. WASTE GEN. | 0430305017 |

## SECTION IV: RAW MATERIALS AND WASTEWATER CHARACTER

A. Give the technical and common names of raw materials used in the manufacturing or other processes, which could be discharged to the sewer during operations or clean up. In the case of proprietary materials, please provide the manufacturer's name:

| Technical Name | Common Name | Manufacturer's Name |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

(Please attach additional sheets if necessary)

B. Are any of the following chemicals used on the premises? Could they potentially be discharged to the sanitary sewer system?, If yes, please check the box of that chemical:

- ☐ Antimony (114)
- ☐ Arsenic (115)
- ☐ Beryllium (117)
- ☐ Cadmium (118)
- ☐ Chromium (119)
- ☒ Copper (120)
- ☐ Lead (122)
- ☒ Total cyanides (121)
- ☐ Mercury (123)
- ☒ Nickel (124)
- ☐ Selenium (125)
- ☒ Silver (126)
- ☐ Thallium (127)
- ☒ Zinc (128)

- ☐ Acrolein (2)
- ☐ Acrylonitrile (3)
- ☐ Benzene (4)
- ☐ Toluene (86)
- ☐ Ethylbenzene (38)
- ☐ Carbon tetrachloride (6)
- ☐ Chlorobenzene (7)
- ☐ 1,2-Dichlorethane (10)
- ☐ 1,1,1-Trichloroethane (11)
- ☐ 1,1-Dichloroethane (13)
- ☐ 1,1-Dichloroethylene (39)
- ☐ 2-Chloroethyl vinyl ether (19)
- ☐ 1,2-Dichlorobenzene (25)
- ☐ 1,3-Dichlorobenzene (26)
- ☐ 1,4-Dichlorobenzene (27)
- ☐ Hexachloroethane (12)
- ☐ Hexachlorobutadiene (52)
- ☐ 1,2-Dichloropropane (32)
- ☐ 1,3-Dichloropropene
- ☐ Methylene chloride (44).
- ☐ PCB 1221 (Arochlor 1221) (108)
- ☐ PCB 1232 (Arochlor 1232) (109)

- ☐ 1,1,2-Trichloroethane (14)
- ☐ 1,1,2,2-Tetrachloroethane (15)
- ☐ Chloroethane (16)
- ☐ Dichlorodifluoromethane (50)
- ☐ Dichlorodibromomethane (51)
- ☒ Tetrachloroethylene (85)
- ☐ Trichloroethylene (87)
- ☐ Vinyl chloride (88)
- ☐ 2,2-Trans-Dichloroethylene (30)
- ☐ Bis (chloromethyl) ether (17)
- ☐ Fluoranthene (39)
- ☐ Fluorene (80)
- ☐ Chysene (76)
- ☐ Pyrene (84)
- ☐ Phenanthrene (81)
- ☐ Hexachlorobenzene (9)
- ☐ 1,2,4-Trichlorobenzene (8)
- ☐ Bis (2-chloroethoxy) methane (43)
- ☐ Naphthalene(55)
- ☐ 2-Chloronaphthalene (20)
- ☐ Isophorone (54)
- ☐ Nitrobenzene (56)
- ☐ 2,4-Dinitrotoluene
- ☐ 2,6-Dinitrotoluene (36)
- ☐ 4-Bromophenylphenyl ether (41)
- ☐ Bis (2-ethylhexyl) phthalate (66)
- ☐ D-N-octyl phthalate (69)
- ☐ Dimethyl phthalate (71)
- ☐ Diethyl phthalate (70)
- ☐ Di-N-butyl phthalate (68)
- ☐ Acenaphthylene (77)
- ☐ Acenapthene (1)
- ☐ Butyl benzyl phthalate (67)
- ☐ Phenol (65)
- ☐ 2-Nitrophenol (57)
- ☐ Aldrin (89)
- ☐ Dieldrin (90)
- ☐ 4,4-DDE (92)
- ☐ 4,4-DDE (p,p-DDX)
- ☐ Endrin (98)
- ☐ Heptachlor epoxide (101)
- ☐ Xylenes
- ☐ Toxaphene (113)
- ☐ Chlordane (91)
- ☐ PCB 1248 (Arochlor 1248) (110)
- ☐ PCB 1260 (Arochlor 1260) (111)
- ☐ PCB 1016 (Arochlor 1016) (112)
- ☐ Endrin Aldehyde (99)
- ☐ Asbestos (116)
- ☐ Methyl chloride (45)
- ☐ Methyl bromide (46)
- ☐ Bromoflorm (47)
- ☐ Dichlorobromomethane (48)
- ☐ Trichlorofluoromethane (49)
- ☐ 4-Nitrophenol (58)
- ☐ 2,4-Dinitrophenol (59)
- ☐ 4,6-Dinitro O-cresol (60)
- ☐ Pentachlorophenol (64)
- ☐ Anthralene
- ☐ Benzo (a) anthralene
- ☐ Benzo (b) fluoranthene
- ☐ Benzo (k) fluoranthene (75)
- ☐ Benzo (a) pyrene (73)
- ☐ Indeno (1,2,3-cd) pyrene (83)
- ☐ Dibenzo (a,h) anthralene
- ☐ Benzo (g,h,i) perylene (79)
- ☐ 4-Chlorophenylphenyl ether (40)
- ☐ 3,3-Dichlorobenzidine (28)
- ☐ Benzidine (5)
- ☐ Bis (2-chloroethyl) ether (18)
- ☐ 1,2-Diphenylhydrazine (37)
- ☐ Hexachlorocyclopentadiene (53)
- ☐ N-Nitrosodiphenylamine (62)
- ☐ N-Nitrosodimethylamine(61)
- ☐ N-Nitrosodi-N-propylamine (63)
- ☐ Bis (2-chloroisopropyl) ether
- ☐ p-Chloro-M-cresol
- ☐ 2-Chlorophenol (24)
- ☐ 2,4-Dichlorphenol
- ☐ 2,4,6-Trichlorphenol (21)
- ☐ 2,4-Dimethylphenol (34)
- ☐ Heptachlor (100)
- ☐ Alpha-endosulfan (95)
- ☐ Beta-endosulfan (96)
- ☐ Endosulfan-sulfate (97)
- ☐ Alph-BHC (102)
- ☐ Beta-BHC (103)
- ☐ Gamma-BHC (104)

☐ PCB 4242 (Arochlor) (1242) (106) ☐ Delta-BHC (105)
☐ PCB 1254 (Arochlor) (1254) (107) ☐ Alkyl epoxides (129)
☐ 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) (129)

Are any of the following listed materials or conditions characteristic of the wastewater discharged by any operations in the facility?

☐ Mineral acids (sulfuric, hydrochloric, nitric hydrofluoric, chromic, and/or phosphoric used in any concentration);
☐ Radioactive nucleotides;
☐ Wastewater containing more than 200 mg/L biochemical oxygen demand;
☐ Wastewater containing more than 250 mg/L total suspended solids;
☐ Fats oils and grease (FOG) greater than 100 mg/L;
☐ Wastewater having a pH lower than 5 or greater than 9;
☐ Strong alkaline solutions (sodium hydroxide, calcium hydroxide);
☐ Wastewater having a temperature greater than 157° F or 65° C.

C. Pollutant Measurement [403.12(b)(5)(ii&viii)]

Attach the analytical reports for analyses required in the cover letter of this application form. These reports must include the analytical laboratory's name, address, and phone number. Sample information must indicate the dates and location of samples, type of sample and the specific time that grab samples are collected.

Samples must be representative of the nature of the discharge. The cover letter will set the specific sampling locations, types and number of samples and the pollutant parameters to be analyzed for.

## SECTION V. WASTEWATER PRETREATMENT SYSTEM OPERATIONS

A. Describe the pretreatment given to process wastewaters prior to discharge to the sanitary sewer system. (attach additional pages if necessary)

SEE Exhibit B

B. Does (did) the pretreatment system have a construction permit issued by IEPA?

☒ Yes ☐ No ☐ Not Applicable

If yes, what is the IEPA permit number? 1984-EB-1508

C. Have (were) plans for the pretreatment facility been submitted and approved by the Downers Grove Sanitary District?

☒ Yes ☐ No ☐ Not Applicable

D. Provide the names of personnel who operate, and/or supervise the operation of the pretreatment system, their job titles and indicate if they are class K certified operators:

Name: FRANK MROCZKA Title: FINISHING SUPERVISOR
Class K certified? ☒ Yes ☐ No

Name: GARY KAUPE Title: PLATER
Class K certified? ☒ Yes ☐ No

Name: LARRY MCDANIEL Title: PLANT MANAGER
Class K certified? ☒ Yes ☐ No

SECTION VI. PLANT DIAGRAM

Attach a diagram of your facility's property indicating the location of each building on the premises. For each building provide a drawing that shows the locations of water meters, any sewage flow meters, sanitary sewer lines and manholes, floor drains, process discharge points, and storm sewer lines.

SECTION VII. STATEMENT OF COMPLIANCE [403.12(B)(7)]

A. Based on the information in this permit application, and to the best of your knowledge, is the wastewater discharged from this facility able to meet the applicable pretreatment standards on a consistent basis?

☒ Yes ☐ No, remarks: _____

B. If not, is additional operation and maintenance (O&M) and/or additional pretreatment required to meet the applicable standards?

☐ Yes ☒ No, remarks: _____

If the answer to Section VII(B) is yes, the applicant shall submit, as part of this application, a compliance schedule or work plan, showing the shortest time schedule for the user to provide such O&M and/or pretreatment. The compliance schedule given in this application will become attached to and part of the industrial discharge permit. The

compliance schedule, or work plan, shall in no case provide any increment of progress exceeding six (6) months.

Not later than fourteen (14) days following each date in the schedule and the final date of compliance, the user shall submit a progress report to the District. These reports shall include at a minimum, whether or not the increment of progress was met on such date, if not, the date on which compliance is expected with the increment of progress, the reason for the delay, and what steps are being taken to return to the schedule established. In no event shall more than six (6) months elapse between progress reports to the District.

SECTION VIII. CERTIFICATION [403.12(B)(6)]

This application must be reviewed by a principal executive officer of the discharger as to the accuracy of the contents. If the services of a professional engineer who is familiar with the pretreatment facility were required to complete this application, their certification as a qualified professional is requested as well.

I (we) declare that I (we) have examined and are familiar with this industrial discharge permit application and certify that to the best of my (our) knowledge and belief it is true, correct, and complete.

Principal Executive Officer

| | |
|---|---|
| RALPH W. GRANDLE | PRESIDENT |
| Print Name | Title |
| Ralph W Grandle | 4-10-00 |
| Signature | Date |

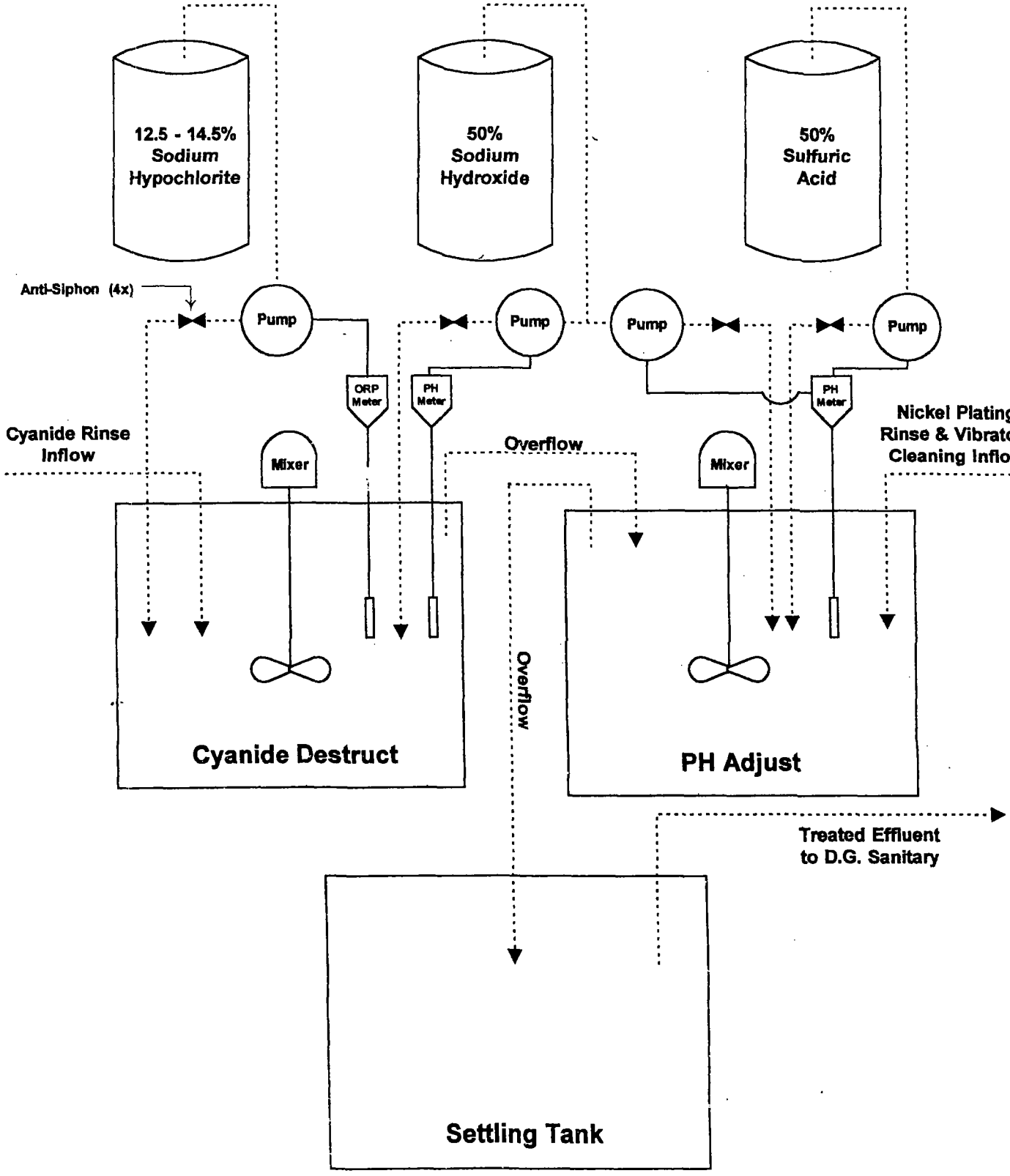
Qualified Professional

| | |
|---|---|
| | |
| Print Name | Title |
| | |
| Signature | Date |

It is the responsibility of the industrial user to be aware of and in compliance with all the federal, state and local rules, regulations, laws and ordinances, as they pertain to the discharge of wastewaters generated at the user's facility.

SECTION V A. Exhibit 8

# Tricon Industries
## Schematic Process Diagram



Section III PARAGRAPH C

# Enviro-Test/Perry Laboratories, Inc.
## Chicago Dairy & Food Laboratories

7780 Quincy St. • Willowbrook IL 60521 • 630-734-9530 • fax 630-734-9534

Tricon Industries
Mr. Larry McDaniel
2325 Wisconsin Ave.
Downers Grove, IL 60515

## Certificate of Laboratory Analysis

Illinois Environmental Protection Agency Certified #100186
Illinois Department of Public Health Certified # 17134

**Report Number: T2703**

Project: DISCHARGE PER
Purchase Order: 11214
Notes:

Report Date 5 /8 /00
Date Received: 04/11/2000
Time Received: 10:10:00
Relinquished By: CLIENT
Received By: ML

**Sample No. T2703001** Matrix: A Sample Type: WW Sampled: 04/10/2000 @ 07:00:00
*Description:* 001-C INSPECTION MANHOLE Composite Collected By: CLIENT

| Analyte | Result | Units | Detection Limit | Analyzed | Analyst | Method Reference |
|---|---|---|---|---|---|---|
| Arsenic | LT .05 | mg/l | .05 | 04/20/2000 | BC | SM 3114B |
| Cadmium | LT .02 | mg/l | 0.02 | 04/13/2000 | BC | SM 3111B |
| Chromium | .13 | mg/l | 0.01 | 04/13/2000 | BC | SM 3111B |
| Copper | .18 | mg/l | 0.02 | 04/13/2000 | BC | SM 3111B |
| Lead | .06 | mg/l | 0.025 | 04/19/2000 | BC | SM 3111B |
| Mercury | LT .0005 | mg/l | 0.0005 | 04/18/2000 | BC | SM 3112B |
| Nickel | LT .05 | mg/l | .05 | 04/17/2000 | BC | SM 3111B |
| Selenium | LT .05 | mg/l | 0.05 | 05/01/2000 | BC | SM 3114B |
| Silver | LT .05 | mg/l | 0.05 | 04/13/2000 | BC | SM 3111B |
| Zinc | .07 | mg/l | 0.05 | 04/12/2000 | BC | SM 3111B |

Laboratory Director

**Enviro-Test/Perry Laboratories, Inc.**
**Chicago Dairy & Food Laboratories**

7780 Quincy St. • Willowbrook IL 60521 • 630-734-9530 • fax 630-734-9534

Tricon Industries
Mr. Larry McDaniel
2325 Wisconsin Ave.
Downers Grove, IL 60515

## Certificate of Laboratory Analysis

Illinois Environmental Protection Agency Certified #100186
Illinois Department of Public Health Certified # 17134

**Report Number: T2696**

Project: CYANIDE PIT
Purchase Order: 11214
Notes:

| | |
|---|---|
| Report Date | 4/12/00 |
| Date Received: | 04/10/2000 |
| Time Received: | 13:02:00 |
| Relinquished By: | ETI |
| Received By: | KB |

Sample No. T2696001 Matrix: A Sample Type: WW Sampled:
Description: CYANIDE PIT Grab Collected By: CLIENT

| Analyte | Result | Units | Detection Limit | Analyzed | Analyst | Method Reference |
|---|---|---|---|---|---|---|
| Cyanide (total) | LT .01 | mg/l | 0.01 | 04/11/2000 | BC | SM 4500CnE |

G. P. Lenos, Laboratory Director

This Report May Not Be Duplicated

I certify that I am familiar with the information contained